

=> D HIS

(FILE 'HOME' ENTERED AT 19:14:39 ON 06 SEP 91)

FILE 'REGISTRY' ENTERED AT 19:15:02 ON 06 SEP 91

L1	1 S 82186-77-4/RN
L2	1 S 75887-54-6/RN
L3	1 S 71963-77-4
L4	1 S 63968-64-9/RN
L5	1 S 88495-63-0/RN

=> FILE CA

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.86	6.11

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FILE COVERS 1967 - 23 Aug 91 (910823/ED) VOL 115 ISS 8.  
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diagrams.

=> S L1

L6 4 L1

=> S L2 OR L3 OR L4 OR L5

24 L2

57 L3

206 L4

40 L5

L7 274 L2 OR L3 OR L4 OR L5

=> S MALARIA? OR ANTIMALARIA? OR ANTI-MALARIA?

2264 MALARIA?

2298 ANTIMALARIA?

22560 ANTI

2264 MALARIA?

16 ANTI-MALARIA?

(ANTI(W)MALARIA?)

L8 3821 MALARIA? OR ANTIMALARIA? OR ANTI-MALARIA?

=> S L6 AND L7

L9 0 L6 AND L7

=> S L6 AND L8

L10 3 L6 AND L8

=> S L7 AND L8

L11 95 L7 AND L8

=> D L10 1-3 BIB AB

L10 ANSWER 1 OF 3

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AN CA114(1):6046p

TI Improved synthesis of antimalarial fluorenemethanol derivative

AU Deng, Rongxian; Zhong, Jingxing; et al.

CS Chinese Academy of Military Medical Sciences, Microbiology and  
Epidemic Disease Institute  
LO Peop. Rep. China  
SO Faming Zhuangli Shenqing Gongkai Shuomingshu, 8 pp.  
PI CN 1042535 A 30 May 1990  
AI CN 88-107666 10 Nov 1988  
IC ICM C07C215-88  
ICS C07C025-22; C07C049-807  
SC 25-26 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
SX 1  
DT P  
CO CNXXEV  
PY 1990  
LA Ch  
AB Fluorenemethanol deriv. (I), an antimalarial 3.2 times more  
effective than chloroquine, is prepd. by an improved method which  
avoids the use of environmentally harmful diazomethane and  
dichloramine T. Reductive cyclization of chloroacetyl deriv. II (R  
= ClCH<sub>2</sub>CO) (prepn. given) with KBH<sub>4</sub> in EtOH gave 70-80% epoxide  
deriv. II (R = oxiranyl), which was refluxed with Bu<sub>2</sub>NH in EtOH to  
give 80-85% amino alc. deriv. II [R = CH(OH)CH<sub>2</sub>NBu<sub>2</sub>] (III).  
Condensation of III with p-ClC<sub>6</sub>H<sub>4</sub>CHO in the presence of granular  
NaOH in EtOH gave 60-70% I.

L10 ANSWER 2 OF 3  
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AN CA101(16):136941u  
TI Stability of antimalarial fluorenemethanol in soft capsules  
AU Wang, Yunling; Ding, Jianxin; Geng, Rongliang  
CS Inst. Microbiol. Epidemiol., Mil. Acad. Med. Sci.  
LO Beijing, Peop. Rep. China  
SO Yaowu Fenxi Zazhi, 4(2), 84-7  
SC 63-5 (Pharmaceuticals)  
DT J  
CO YFZADL  
IS 0254-1793  
PY 1984  
LA Ch  
AB The stability of fluorenemethanol (I) [82186-77-4] soft capsules  
contg. linoleic acid was studied. TLC indicated that an impurity  
tentatively identified as I linoleate [92069-16-4] was obsd. The  
empirical formula was C<sub>48</sub>H<sub>62</sub>O<sub>2</sub>NCl<sub>3</sub> and the solidifying point was -52  
to -53.degree.. The mol. wt. detd. by mass spectrometry was  
identical to the theor. value. I and I linoleate were detd. by  
spectrophotometry at 335 nm. The std. curve was linear to .apprx.40  
.mu.g and recoveries were 98.33 and 99.97%, resp. The formation of  
I linoleate increased with temp. from 60 to 120.degree..

L10 ANSWER 3 OF 3  
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AN CA97(4):28538h  
TI Enhancement of bioavailability of a hydrophobic fluorenemethanol  
antimalarial by oleic acid in soft gelatin capsules  
AU Wang, Yunling; Ding, Deben; Ding, Jianxin  
CS Microb. Epidemics Inst., Acad. Mil. Med.  
LO Peop. Rep. China  
SO Yaoxue Tongbao, 17(1), 4-7  
SC 63-6 (Pharmaceuticals)  
DT J  
CO YHTPAD  
IS 0512-7343  
PY 1982  
LA Ch  
AB Antimalarial .alpha.-(dibutylaminomethyl)-.alpha.-[2,7-dichloro-9-(4-

chlorobenzylidene)-4-fluorenyl]methanol (I) [82186-77-4] was highly sol. in oleic acid [12-80-1] or linoleic acid [60-33-3] (>350 mg I/mL), but the soly. of I in water was extremely low (.apprx.1 .mu.g I/mL). An aq. soln. of I was barely absorbable. Thus, I soft gelatin capsules with high absorbability were prepd. contg. I 3.5 g, vitamin E (antioxidant) 2 mg, Tween 80 (surfactant) 0.6 g and oleic acid or linoleic acid to 10 g.

=> D L11 5-10 BIB AB

L11 ANSWER 5 OF 95

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AN CA114(2):12187b  
TI Method for the isolation of artemisinin from *Artemisia annua*  
AU Elferaly, Farouk S.; Elsohly, Hala N.  
LO USA  
SO U.S., 4 pp.  
PI US 4952603 A 28 Aug 1990  
AI US 88-208763 20 Jun 1988  
IC ICM A61K031-335  
NCL 514450000  
SC 63-4 (Pharmaceuticals)  
DT P  
CO USXXAM  
PY 1990  
LA Eng  
AB An improved method of producing artemisinin (I), an antimalarial agent, from the leaves of *Artemisia annua* comprises (1) extg. the plant with hexane, (2) partitioning the hexane ext. between hexane and MeCN-H<sub>2</sub>O mixt., (3) evapg. the MeCN phase to dryness, (4) chromatographing the evapd. mixt. on silica gel adsorbent with a solvent comprising EtOAc in hexane, and (5) evapg. the solvent followed by crystn. to produce substantially pure I. This invention provides a simple, practical method for the isolation and recovery of I from plant material which yields I in quantities and purity unobtainable in the methods known in the prior art. Also, this process allows the eluting columns to be used in .gtoreq.2 runs, resulting in economic advantages.

L11 ANSWER 6 OF 95

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AN CA114(1):6866f  
TI Acid degradation products of qinghaosu and their structure-activity relationships  
AU Imakura, Yasuhiro; Hachiya, Katsutoshi; Ikemoto, Tomomi; Yamashita, Shinsuke; Kihara, Masaru; Kobayashi, Shigeru; Shingu, Tetsuro; Milhous, Wilbur K.; Lee, Kuo Hsiung  
CS Fac. Sci., Naruto Univ. Educ.  
LO Naruto 772, Japan  
SO Heterocycles, 31(6), 1011-16  
SC 30-15 (Terpenes and Terpenoids)  
SX 1  
DT J  
CO HTCYAM  
IS 0385-5414  
PY 1990  
LA Eng  
AB Treatment of qinghaosu (I) with acid yielded 1',2',4'-trioxanes II (R = Me, Et) endoperoxides III, and diketones IV. Structures II-IV were assigned based on their phys. and spectral data. Structure-activity correlation among these compds. indicated the steric requirement of the 1',2',4'-trioxane ring system as found in I was required for potent antimalarial activity.

AN CA114(1):127u  
TI Structure elucidation and thermospray high-performance liquid chromatography/mass spectroscopy (HPLC/MS) of the microbial and mammalian metabolites of the antimalarial arteether  
AU Hufford, Charles D.; Lee, Ik Soo; ElSohly, Hala N.; Chi, Hsien Tao; Baker, John K.  
CS Sch. Pharm., Univ. Mississippi  
LO University, MS 38677, USA  
SO Pharm. Res., 7(9), 923-7  
SC 1-2 (Pharmacology)  
SX 10  
DT J  
CO PHREEB  
IS 0724-8741  
PY 1990  
LA Eng  
AB Microbial metab. studies of the antimalarial drug arteether (I) have shown that I is metabolized to 6 new metabolites in addn. to those previously reported. Large-scale ferms. with *Cunninghamella elegans* (ATCC 9245) and *Streptomyces lavendulae* (L-105) have resulted in the characterization of these metabolites primarily by two-dimensional NMR (2D-NMR) methods as 9.beta.-hydroxyI, a ring rearrangement metabolite, 3.alpha.-hydroxy-11-epideoxydihydroartemisinin, 9.alpha.-hydroxyI, 2.alpha.-hydroxyI, and 14-hydroxyI. Thermospray mass spectroscopy/high-performance liq. chromatog. analyses have shown that 4 of these metabolites are also present in rat liver microsome preps.

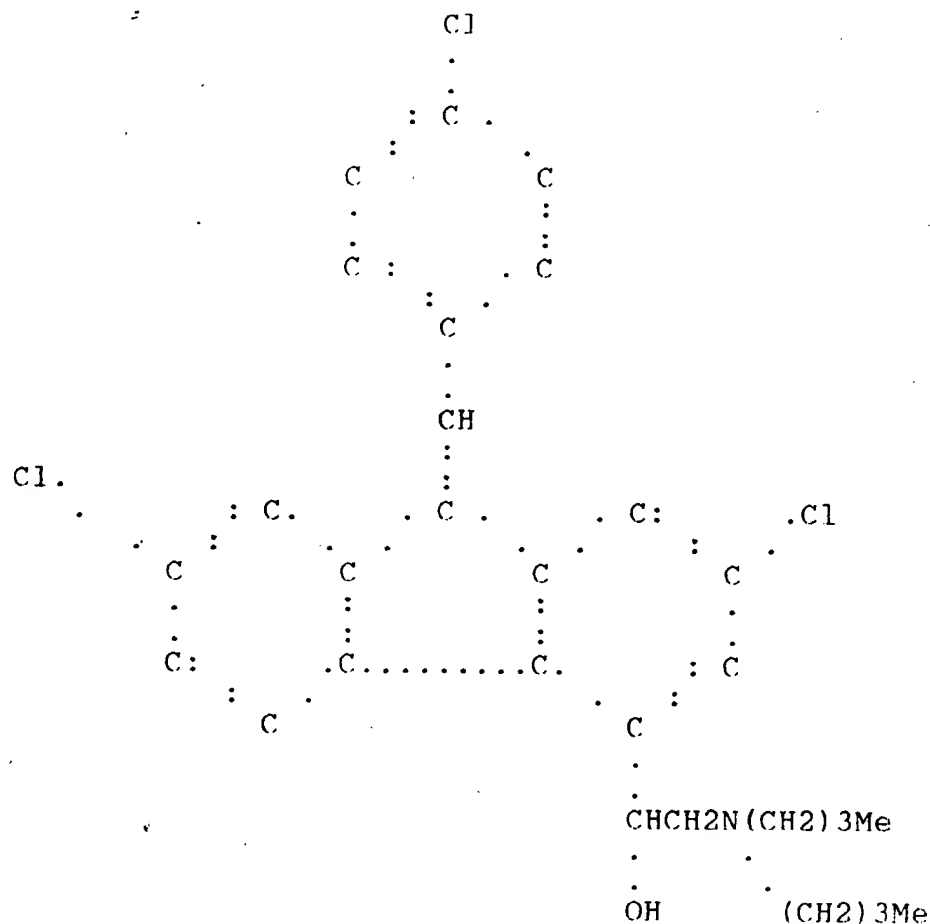
AN CA113(11):97856w  
TI Deoxoartemisinin: new compound and composition for the treatment of malaria  
AU McChesney, James D.; Jung, Mankil  
LO USA  
SO U.S., 3 pp.  
PI US 4920147 A 24 Apr 1990  
AI US 89-329669 28 Mar 1989  
IC ICM A61K031-335  
ICS C07D321-02  
NCL 514450000  
SC 30-15 (Terpenes and Terpenoids)  
SX 1  
DT P  
CO USXXAM  
PY 1990  
LA Eng  
AB The title compd. (I) was prepd. Thus, artemisinin and BF<sub>3</sub>.Et<sub>2</sub>O in THF were added to an ice-cooled soln of NaBH<sub>4</sub> in THF. The mixt was stirred 1 h at ice temp and refluxed 10 min to give I. I had an IC<sub>50</sub> of 0.15 ng/mL against *Plasmodium falciparum* UV-2.

AN CA113(5):41044n  
TI A short and stereospecific synthesis of (+)-deoxoartemisinin and (-)-deoxodesoxyartemisinin  
AU Jung, Mankil; Li, Xun; Bustos, Daniel A.; ElSohly, Hala N.; McChesney, James D.  
CS Sch. Pharm., Univ. Mississippi  
LO University, MS 38677, USA

D L1 FCN STR \* FILE COPY

L1 ANSWER 1 OF 1  
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CN 9H-Fluorene-4-methanol, 2,7-dichloro-9-[(4-chlorophenyl)methylene]-  
.alpha.-[(dibutylamino)methyl]- (9CI) (CA INDEX NAME)  
CN Benflumelol



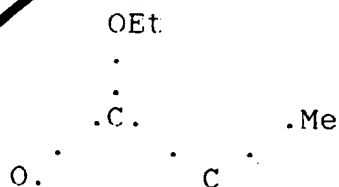
=> S 75887-54-6/RN  
L2 1 75887-54-6/RN

=> D L2 FNC STR  
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For an explanation, enter 'HELP DISPLAY'.

=> D L2 FCN STR

L2 ANSWER 1 OF 1  
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CN 3,12-Epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin, 10-ethoxydecahydro-  
3,6,9-trimethyl-, [3R-(3.alpha.,5a.beta.,6.beta.,8a.beta.,9.alpha.,1  
0.alpha.,12.beta.,12aR\*)]- (9CI) (CA INDEX NAME)  
CN SM 227  
CN Arteether  
CN .alpha.-Arteether



Me

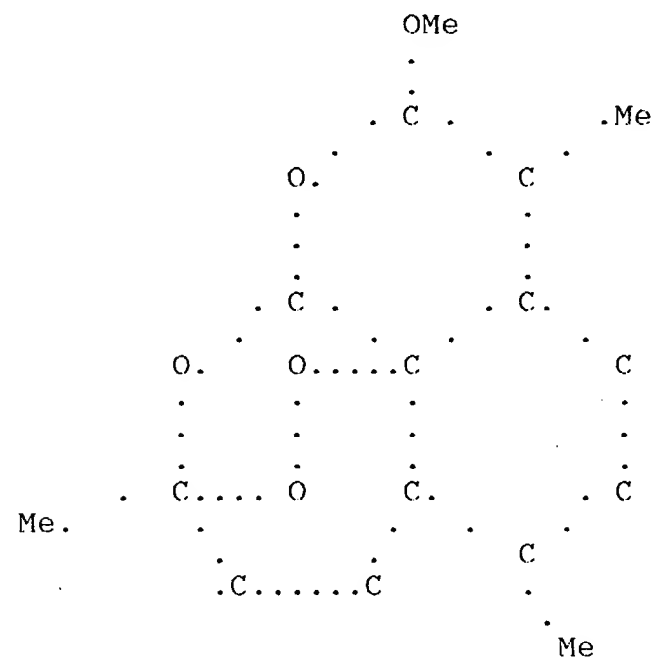
Me

=> S 71963-77-4  
L3 1 71963-77-4  
(71963-77-4/RN)

=> D L3 FCN STR

L3 ANSWER 1 OF 1  
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CN 3,12-Epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin, decahydro-10-methoxy-  
3,6,9-trimethyl-, [3R-(3.alpha.,5a.beta.,6.beta.,8a.beta.,9.alpha.,1  
0.alpha.,12.beta.,12aR\*)]- (9CI) (CA INDEX NAME)  
CN Artemether  
CN SM 224  
CN Dihydroartemisin methyl ether



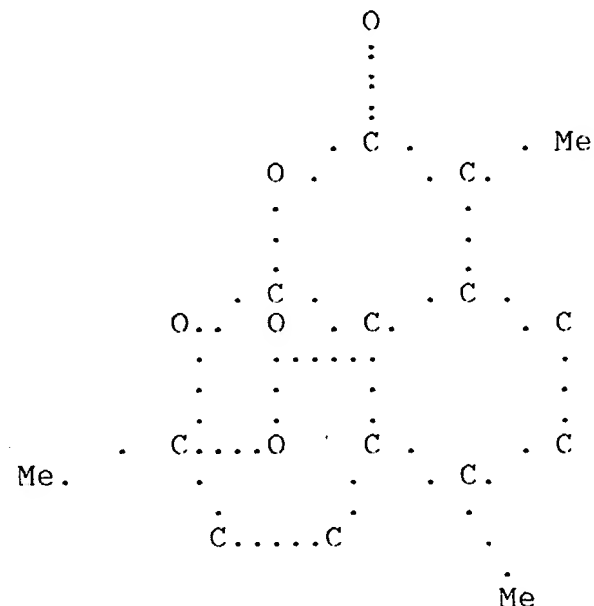
=> S 63968-64-9/RN  
L4 1 63968-64-9/RN

=> D L4 FCN STR

L4 ANSWER 1 OF 1  
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CN 3,12-Epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10(3H)-one,  
octahydro-3,6,9-trimethyl-, [3R-(3.alpha.,5a.beta.,6.beta.,8a.beta.,  
9.alpha.,12.beta.,12aR\*)]- (9CI) (CA INDEX NAME)  
CN Qing Hau Sau

CN Artemisinin  
 CN Arteannuin  
 CN Qinghaosu  
 CN Qing Hau Su  
 CN (+)-Artemisinin  
 CN Qinghosu  
 CN (+)-Arteannuin

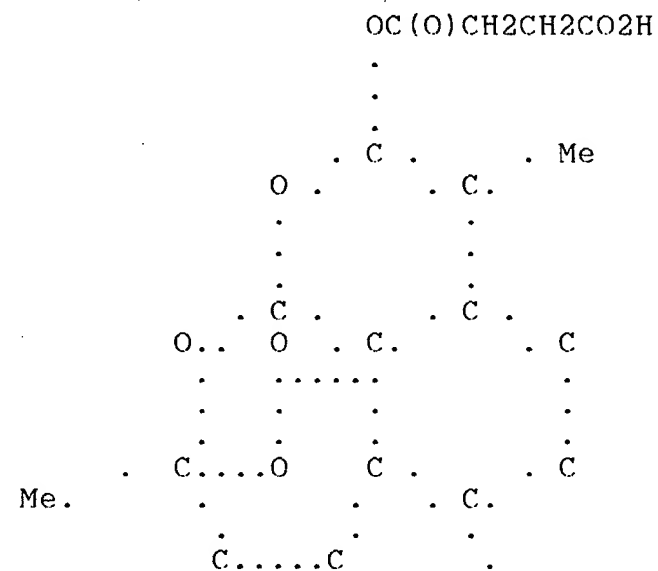


=> S 88495-63-0/RN  
 L5 1 88495-63-0/RN

=> D L5 FCN STR

L5 ANSWER 1 OF 1  
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CN Butanedioic acid, mono(decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10-yl) ester, [3R-(3.alpha.,5a.beta.,6.beta.,8a.beta.,9.alpha.,10.alpha.,12.beta.,12aR\*)]- (9CI) (CA INDEX NAME)  
 CN 3,12-Epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin, butanedioic acid deriv. (9CI)  
 CN Artesunic acid  
 CN Artesunate  
 CN Qinghaozhi



SO • Tetrahedron Lett., 30(44), 5973-6  
 SC 30-15 (Terpenes and terpenoids)  
 DT J  
 CO TELEAY  
 IS 0040-4039  
 PY 1989  
 LA Eng  
 OS CASREACT 113:41044  
 AB The synthesis of (+)-deoxoartemisinin (I; Z = H, H) and  
 (-)-deoxodesoxyartemisinin (II) was achieved either from artemisinic  
 acid (III) or from artemisinin (I; Z = O).

L11 ANSWER 10 OF 95 \*  
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AN CA113(5):34389a  
 TI Systemic toxicity study of a new schizontocidal antimalarial drug,  
 Arteether, in rats and monkeys  
 AU Sethi, N.; Srivastava, S.; Murthy, P. S. R.; Singh, R. K.  
 CS Div. Toxicol., Cent. Drug Res. Inst.  
 LO Lucknow 226001, India  
 SO Indian J. Parasitol., 12(2), 223-35  
 SC 1-5 (Pharmacology)  
 DT J  
 CO IJPAES  
 IS 0253-7168  
 PY 1988  
 LA Eng  
 AB Six wk toxicity testing of a newly prepd. antimalarial drug,  
 Arteether (I), was carried out in rats and monkeys. The routine  
 toxicity parameters in hematol., biochem., and histopathol. of the  
 animals did not reveal any significant change as compared to the  
 control. It has been concluded from the expts. that compd. is safe  
 in rodents and nonhuman primates at the doses used.

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	18.73	24.84
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-3.06	-3.06

STN INTERNATIONAL LOGOFF AT 19:23:27 ON 06 SEP 91



US PAT NO: 4,816,478 L7: 5 of 6  
DATE ISSUED: Mar. 28, 1989  
TITLE: Treatment of acquired immunodeficiency syndrome  
INVENTOR: Carl R. Thornfeldt, 1054 N.W. 2nd Ave., Ontario, OR 97914  
APPL-NO: 07/088,437  
DATE FILED: Aug. 24, 1987  
ART-UNIT: 125  
PRIM-EXMR: Jerome D. Goldberg  
LEGAL-REP: Townsend and Townsend

4,816,478 1 CLASSIFICATIONS L7: 5 of 6

1. 514/450 OR

US PAT NO: 4,816,478 L7: 5 of 6

ABSTRACT:  
A treatment of Acquired Immunodeficiency Syndrome (AIDS) and AIDS Related Complex (ARC) with therapeutically effective amounts of semisynthetic derivatives of dihydroartemesinin and synthetic compounds with a sesquiterpene structure.

US PAT NO: 4,791,135 L7: 6 of 6  
DATE ISSUED: Dec. 13, 1988  
TITLE: Novel antimalarial dihydroartemisinin derivatives  
INVENTOR: Ai J. Lin, Gaithersburg, MD  
Daniel L. Klayman, Chevy Chase, MD  
Wilbur K. Milhous, Rockville, MD  
ASSIGNEE: The United States of America as represented by the  
Secretary of the Army, Washington, DC (U.S. govt.)  
APPL-NO: 07/087,365  
DATE FILED: Aug. 20, 1987  
ART-UNIT: 121  
PRIM-EXMR: Jane T. Fan  
LEGAL-REP: Anthony T. Lane, William V. Adams, Werten F. W. Bellamy

4,791,135 2 CLASSIFICATIONS L7: 6 of 6

1. 514/450 OR  
2. 549/348 XR

US PAT NO: 4,791,135 L7: 6 of 6

ABSTRACT:  
This invention relates to novel dihydroartemisinin derivatives, including their pharmaceutically-acceptable salts, which are therapeutically-effective in the pre- and post-treatment of malarial infections.

=>

ABSTRACT:  
A process for synthesizing oxygen-containing polyoxatetracycle compounds and in particular analogs of the antimalarial agent known as qinghaosu or artemisinin is disclosed. The process employs as a reactant an olefinically unsaturated bicyclic bridging ketone having nonenolizable bridgehead moieties for both of its alpha positions. This ketone is converted to a vinylsilane that is subjected to ozonolytic cleavage of its olefinic bond to yield a member of a family of unique carboxyl/carbonyl-substituted vinylsilanes which may in turn optionally be subjected to a wide range of reactions prior to a final ozonolysis/acidification step which closes the oxygen-containing ring structure. The various intermediates are claimed as aspects of this invention as are novel tetracycles and their use as antimalarials.

US PAT NO: 5,011,951 [IMAGE AVAILABLE] L7: 3 of 6  
DATE ISSUED: Apr. 30, 1991  
TITLE: Synthesis of artemisininelactol derivatives  
INVENTOR: Peter Buchs, Bioggio, Switzerland  
Arnold Brossi, Bethesda, MD  
ASSIGNEE: World Health Organization, Switzerland, Switzerland  
(foreign corp.)  
APPL-NO: 07/316,282  
DATE FILED: Feb. 27, 1989  
ART-UNIT: 126  
PRIM-EXMR: Nicky Chan

5,011,951 [IMAGE AVAILABLE] 1 CLASSIFICATIONS L7: 3 of 6

1. 549/348 OR

US PAT NO: 5,011,951 [IMAGE AVAILABLE] L7: 3 of 6

ABSTRACT:  
A process for the epimerization of .alpha.- to .beta.- ethyletherartemisininelactol ( arteether ) or preparation of arteether , useful in the treatment of malaria, from artemisininelactol, comprises reacting starting material in a solvent including an acid catalyst, the reaction of artemisininelactol also including an etherifying ethyl moiety, and isolating the product.

US PAT NO: 4,978,676 [IMAGE AVAILABLE] L7: 4 of 6  
DATE ISSUED: Dec. 18, 1990  
TITLE: Treatment of skin diseases with artemisinin and derivatives  
INVENTOR: Carl R. Thornfeldt, 1054 NW. 2nd Ave., Ontario, OR 97914  
APPL-NO: 07/335,615  
DATE FILED: Apr. 10, 1989  
ART-UNIT: 125  
PRIM-EXMR: Leonard Schenkman  
LEGAL-REP: Townsend and Townsend

4,978,676 [IMAGE AVAILABLE] 2 CLASSIFICATIONS L7: 4 of 6

1. 514/450 OR  
2. 514/863 XR

US PAT NO: 4,978,676 [IMAGE AVAILABLE] L7: 4 of 6

ABSTRACT:  
Psoriasis, ultraviolet light induced skin conditions and tumors are successfully treated with topical or oral administration of artemisinin, dihydroartemisinin, its isynthetic derivatives and its synthetic analogs. Viral tumors/diseases, hemorrhoids, and bullous skin diseases are also successfully treated with these topical compositions.

US PAT NO: 5,021,426 [IMAGE AVAILABLE] L7: 1 of 6  
DATE ISSUED: Jun. 4, 1991  
TITLE: Method of traeting malaria with cyproheptadine derivatives  
INVENTOR: John J. Baldwin, Gwynedd Valley, PA  
Gabriel F. Eilon, Irvine, CA  
Paul A. Friedman, Rosemont, PA  
David C. Remy, North Wales, PA  
ASSIGNEE: Merck & Co., Inc., Rahway, NJ (U.S. corp.)  
APPL-NO: 07/484,774  
DATE FILED: Feb. 26, 1990  
ART-UNIT: 129  
PRIM-EXMR: Glennon H. Hollrah  
ASST-EXMR: Gary E. Hollinden  
LEGAL-REP: Hesna J. Pfeiffer, Raymond M. Speer, William H. Nicholson

5,021,426 [IMAGE AVAILABLE] 5 CLASSIFICATIONS L7: 1 of 6

1.	514/313	OR
2.	514/314	XR
3.	514/318	XR
4.	514/325	XR
5.	514/895	XR

US PAT NO: 5,021,426 [IMAGE AVAILABLE] L7: 1 of 6

ABSTRACT:

Various 3-substituted cyproheptadine derivatives are useful in the treatment of infection by Plasmodium falciparum and in the treatment of malaria either as compounds, pharmaceutically acceptable salts, or pharmaceutical composition ingredients in combination with antimalarial agents or compounds. Methods of treating malaria and methods of treating infection by Plasmodium falciparum are also described.

US PAT NO: 5,019,590 [IMAGE AVAILABLE] L7: 2 of 6  
DATE ISSUED: May 28, 1991  
TITLE: Antimalarial analogs of artemisinin  
INVENTOR: Mitchell A. Avery, Palo Alto, CA  
Wesley K. M. Chong, Mountain View, CA  
ASSIGNEE: SRI International, Menlo Park, CA (U.S. corp.)  
APPL-NO: 07/414,730  
DATE FILED: Sep. 27, 1989  
ART-UNIT: 123  
PRIM-EXMR: Jane T. Fan  
LEGAL-REP: Richard P. Lange

5,019,590 [IMAGE AVAILABLE] 9 CLASSIFICATIONS L7: 2 of 6

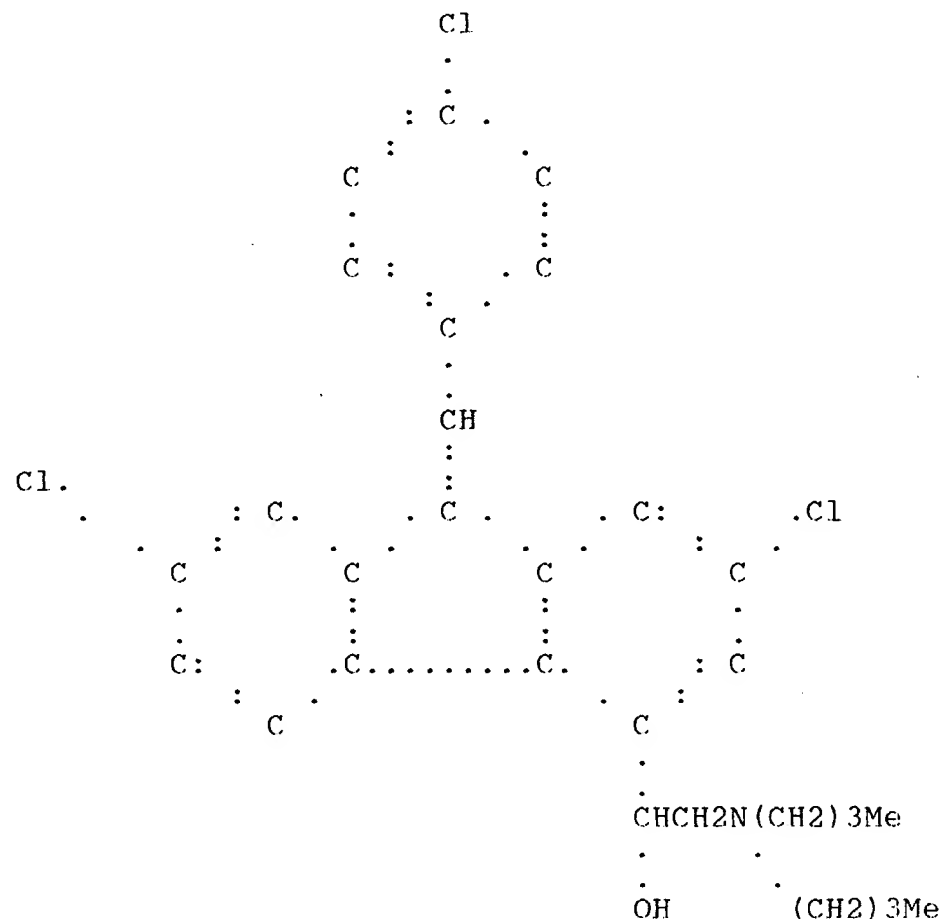
1.	514/450	OR
2.	514/453	XR
3.	549/276	XR
4.	549/277	XR
5.	549/279	XR
6.	549/348	XR
7.	556/436	XR
8.	556/489	XR
9.	568/374	XR

US PAT NO: 5,019,590 [IMAGE AVAILABLE] L7: 2 of 6

D L1 FCN STR \*

L1 ANSWER 1 OF 1  
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CN 9H-Fluorene-4-methanol, 2,7-dichloro-9-[(4-chlorophenyl)methylene]-  
.alpha.-[(dibutylamino)methyl]- (9CI) (CA INDEX NAME)  
CN Benflumelol



=> S 75887-54-6/RN  
L2 1 75887-54-6/RN

=> D L2 FNC STR  
'FNC' IS NOT VALID HERE  
For an explanation, enter 'HELP DISPLAY'.

=> D L2 FCN STR

L2 ANSWER 1 OF 1  
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CN 3,12-Epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin, 10-ethoxydecahydro-  
3,6,9-trimethyl-, [3R-(3.alpha.,5a.beta.,6.beta.,8a.beta.,9.alpha.,1  
0.alpha.,12.beta.,12aR\*)]- (9CI) (CA INDEX NAME)  
CN SM 227  
CN Arteether  
CN .alpha.-Arteether

